

**Form PTO-1449 (Modified)**

<p><b>FORM PTO-1449</b>  <b>(Modified)</b></p> <p>O P E R A T I O N S J C I T MAR 1 2 2002 P R O C E D U R E S</p> <p>(37 CFR 1.98(e))</p>	<b>U. S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>	<b>ATTY. DOCKET NO.</b> <b>P00594-US</b>	<b>SERIAL NO.</b> <b>09/973,335</b>
	<b>APPLICANT:</b> Soltz et al.		
	<b>FILING DATE:</b> 10/9/01		<b>GROUP</b> <b>Unassigned</b>

## **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER						ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LP	4	7	1	3	4	4	6	12/15/87	DeVore et al.	530	356
	4	9	6	9	9	1	2	11/13/90	Kelman et al.	623	66
	5	1	0	4	9	5	7	04/14/92	Kelman et al.	527	201
	5	1	5	6	6	1	3	10/20/92	Sawyer	606	213
	5	2	1	9	8	9	5	06/15/93	Kelman et al.	522	68
	5	2	9	2	3	6	2	03/08/94	Bass et al.	106	124
	5	3	3	2	8	0	2	07/26/94	Kelman et al.	530	356
	5	3	5	4	3	2	3	10/11/94	Whitebook	607	89
	5	3	5	4	3	3	6	10/11/94	Kelman et al.	623	6
	5	4	0	9	4	8	1	04/25/95	Poppas et al.	606	12
	5	4	7	6	5	1	5	12/19/95	Kelman et al.	623	6
LP	5	5	4	0	6	7	7	07/30/96	Sinofsky	606	8

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

**OTHER DOCUMENTS** (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

GP		Schober et al., "Laser-induced alteration of collagen substructure allows microsurgical tissue welding", <u>Science</u> , 232, 142-22, 1986
		Bass et al., "Changes in type I collagen following laser welding", <u>Lasers surg med</u> , 12, 500-5, 1992
		Enker et al., "Formaldehyde-free collagen glue in experimental lung gluing", <u>Ann Thorac Surg</u> , V 57, 1622-7, 1994
		Stewart et al., "Laser assisted vascular welding with real time temperature control", <u>Lasers surg med</u> , 19, 9-16, 1996
		Menovsky et al., "Laser tissue welding of dura mater and peripheral nerves: a scanning electron microscopy study", <u>Lasers surg med</u> , 19, 152-8, 1996
GT		Small IV et al., "Dye-enhanced protein solders and patches in laser-assisted tissue welding", <u>J Clin Laser Med &amp; Surg</u> , 15, 205-8, 1997

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**DATE CONSIDERED**

4/28/03

<b>FORM PTO-1449</b> <i>(Modified)</i>  <b>U. S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  <i>(Use several sheets if necessary)</i>  <i>(37 CFR 1.98(b))</i>	<b>ATTY. DOCKET NO.</b> <b>P00594-US</b>  <b>SERIAL NO.</b> <b>09/973,335</b>  <b>APPLICANT:</b> Soltz et al.  <b>FILING DATE:</b> 10/9/01 <b>GROUP</b> <b>Unassigned</b>
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## **FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

**OTHER DOCUMENTS** (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

GP		Tang et al., "Morphologic changes in collagen fibers after 830nm diode laser welding", <u>Lasers surg med</u> , 21, 438-43, 1997
		Lauto., "Repair strength dependence on solder protein concentration: a study in laser tissue welding", <u>Lasers surg med</u> , 22, 120-5, 1998
		Suh et al., "Comparison of dermal and epithelial approaches to laser tissue soldering for skin flap closure", <u>Lasers surg med</u> , 22, 268-74, 1998
		Maitz et al., "Sutureless microvascular anastomoses by a biodegradable laser-activated solid protein solder", <u>Plastic &amp; reconstructive surg</u> , 104, 1726-31, 1999
		Lauto et al., "Two-layer film as a laser soldering biomaterial", <u>Lasers surg med</u> , 25, 250-6, 1999
GP		Lobel et al., "Temperature controlled co2 laser welding of soft tissues: urinary bladder welding in different animal models (rats, rabbits, and cats)", <u>Lasers surg med</u> , 26, 4-12, 2000

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*John R. M.*

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**OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)**

GP		Fried et al., "Laser skin welding: in vivo tensile strength and wound healing results", <u>Lasers surg med</u> , 27, 55-65, 2000
		Lauto et al., "Carotid artery anastomosis with albumin solder and near infrared lasers: a comparative study", <u>Lasers surg med</u> , 28, 50-5,2001
		Sorg et al., "Laser-tissue soldering with biodegradable polymer films in vitro: film surface morphology and hydration effects", <u>Lasers surg med</u> , 28, 297-306, 2001
		Cooper et al., "Optimal solder and power density for diode laser tissue soldering", <u>Lasers surg med</u> , 29, 53-61, 2001
		Steward et al., "Concentrated autologous plasma protein: a biochemical neutral solder for tissue welding", <u>Lasers surg med.</u> , 29, 336-42, 2001
68		McNally et al., "Improved vascular tissue fusion using new light-activated surgical adhesive on a canine model", <u>J biomed optics</u> , 6, 68-73 , 2001

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